

Amendments to the Claims:

Please amend the claims as follows:

Claim 1 (Currently amended): A fluid dispenser (~~4~~) for dispensing a metered volume of a fluid product (~~2~~) having:-

- (a) a storage chamber (~~57~~) for storing the fluid product in;
- (b) a dispensing outlet (~~27~~) through which the fluid product is dispensable from the dispenser;
- (c) a metering chamber (~~73~~) which is adapted to provide the metered volume of the fluid product for dispensing through the dispensing outlet by movement of the metering chamber between a contracted state (~~FIG. 2A~~) and an expanded state (~~Fig. 2B~~), movement of the metering chamber from its contracted state to the expanded state placing the metering and storage chambers in fluid communication to enable the metering chamber to receive from the storage chamber an excess volume of the fluid product comprising the metered volume and a surplus volume; and
- (d) a bleed arrangement (~~55a-55b~~) adapted to bleed the surplus volume of the fluid product from the metering chamber;

wherein:-

- (e) the metering chamber is defined by a boundary wall having a first section (~~43~~) movably mounted in the dispenser to move the metering chamber between the expanded and contracted states; and
- (f) the first section of the metering chamber boundary wall and the storage chamber are provided by a container unit (~~58~~) which is movably mounted in the dispenser.

Claim 2 (Original): The dispenser of claim 1, wherein a transfer port is provided in the boundary wall through which the metering and storage chambers are placed in fluid communication and the transfer port is selectively opened and closed when the metering chamber moves between its expanded and contracted states.

Claim 3 (Original): The dispenser of claim 2, wherein the transfer port is in the first section.

Claim 4 (Currently amended): The dispenser of claim 2 ~~[[or 3]]~~, wherein the transfer port is closed when the metering chamber is at an intermediate state between its expanded and contracted states.

Claim 5 (Original): The dispenser of claim 4, wherein the metering chamber has a volume corresponding to, or substantially corresponding to, the metered volume when at the intermediate state.

Claim 6 (Currently amended): The dispenser of claim 4 ~~[[or 5]]~~, wherein the transfer port is closed when the metering chamber moves between the intermediate and contracted states and open when the metering chamber moves between the intermediate and expanded states.

Claim 7 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section.

Claim 8 (Original): The dispenser of claim 7, wherein the second section is stationary in the dispenser.

Claim 9 (Currently amended): The dispenser of ~~any one of claims~~ claim 2 to 6 and claim 7 or 8, wherein the second section is adapted in use to selectively open and close the transfer port.

Claim 10 (Currently amended): The dispenser of ~~any one of the preceding claims~~ claim 1, wherein an outlet port is provided in the boundary wall through which the metered volume of the fluid product is transferable from the metering chamber towards the dispensing outlet.

Claim 11 (Currently amended): The dispenser of claim 10 ~~when appended to claim 7 or 8,~~ wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and wherein the outlet port is provided in the second section.

Claim 12 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims,~~ wherein the container unit is adapted in use to operate as a pump mechanism for filling and emptying of the metering chamber.

Claim 13 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims,~~ wherein movement of the metering chamber from its contracted state to its expanded state causes a pressure difference between the metering and storage chambers which results in the excess volume of the fluid product being drawn into the metering chamber.

Claim 14 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims,~~ wherein movement of the metering chamber from its expanded state to its contracted state pumps the metered volume of the fluid product out of the metering chamber.

Claim 15 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the metering chamber is repeatedly movable between its different states thereby enabling the dispenser to repeatedly dispense a metered volume of the fluid product.

Claim 16 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ further having a valve mechanism which is adapted in use to keep the dispensing outlet closed until the bleed arrangement bleeds the surplus volume of the fluid product from the metering chamber.

Claim 17 (Original): The dispenser of claim 16 in which the valve mechanism is adapted to open the dispensing outlet as the metering chamber moves to its contracted state and to re-close the dispensing outlet when the contracted state is reached.

Claim 18 (Currently amended): The dispenser of claim 10, ~~claim 11 or any one of claims 12 to 15 when appended to claim 10~~ further having a valve mechanism at the outlet port which is adapted to only allow the metered volume of the fluid product to be transferred to the dispensing outlet.

Claim 19 (Original): The dispenser of claim 18, wherein the valve mechanism is configured to close the outlet port except when the metering chamber moves to its contracted state after the bleed arrangement bleeds the surplus volume of the fluid product therefrom.

Claim 20 (Currently amended): The dispenser of claim 16 ~~any one of claims 16 to 19~~ in which the valve mechanism is a non-return valve mechanism.

Claim 21 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the dispensing outlet is in a nozzle of the dispenser.

Claim 22 (Original): The dispenser of claim 21, wherein the nozzle is configured as a mouthpiece or a nasal nozzle.

Claim 23 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the bleed arrangement is adapted in use to bleed the surplus volume of the fluid product in the metering chamber to the storage chamber.

Claim 24 (Currently amended): The dispenser of claim 23 ~~when appended to claim 2,~~ wherein a transfer port is provided in the boundary wall through which the metering and storage chambers are placed in fluid communication and the transfer port is selectively opened and closed when the metering chamber moves between its

expanded and contracted states, and wherein the bleed arrangement is adapted in use to bleed the surplus volume of the fluid product to the storage chamber through the transfer port.

Claims 25 -- 35 (Canceled)

Claim 36 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the container unit is mounted for translational movement in the dispenser.

Claim 37 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ having an axis along which the container unit, in use, moves.

Claim 38 (Original): The dispenser of claim 37 in which the storage and metering chambers are located on the axis.

Claim 39 (Currently amended): The dispenser of claim 37 ~~or 38 when appended to claim 14,~~ wherein an outlet port is provided in the boundary wall through which the metered volume of the fluid product is transferable from the metering chamber towards the dispensing outlet, and wherein the outlet port is located on the axis.

Claim 40 (Currently amended): The dispenser of claim 37[[, 38 or 39]] in which the dispensing outlet is located on the axis.

Claim 41 (Original): The dispenser of claim 40 in which the outlet port and the dispensing outlet are at opposed ends of an axial channel of the dispenser.

Claim 42 (Currently amended): The dispenser of claim 21 ~~or any claim appended thereto~~ in which the storage chamber, metering chamber and nozzle are configured in-line.

Claim 43 (Currently amended): The dispenser of claim 10 ~~or any claim appended thereto~~ in which the storage chamber, metering chamber and outlet port are configured in-line.

Claim 44 (Currently amended): The dispenser of claim 7 ~~or any claim appended thereto~~, wherein the first section of the metering chamber boundary wall is mounted for sliding movement on the second section of the metering chamber boundary wall.

Claim 45 (Original): The dispenser of claim 44, wherein the first section of the metering chamber boundary wall is sealingly slidably mounted on the second section of the metering chamber boundary wall.

Claim 46 (Currently amended): The dispenser of claim 37 ~~any one of claims 37 to 41 and claim 44 or claim 45~~, wherein the first section of the metering chamber boundary wall presents at least a portion of an axially-oriented side of the metering chamber.

Claim 47 (Currently amended): The dispenser of claim 46 ~~when appended to claim 3~~, wherein the transfer port is in the first section, and wherein the transfer port is provided in the axially-oriented side of the metering chamber.

Claim 48 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein the first section of the metering chamber boundary wall presents a movable end wall of the metering chamber.

Claim 49 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the first section of the metering chamber boundary wall has a generally U-shape.

Claim 50 (Currently amended): The dispenser of claim 46 ~~claims 46, 48 and 49~~, wherein the end wall of the metering chamber is presented by the base of the U-shape and the side of the metering chamber is presented by the limbs of the U-shape.

Claim 51 (Currently amended): The dispenser of claim 46, ~~47 or 50 when appended to claim 7, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and~~ wherein the second section of the metering chamber boundary wall is presented by a structure having an axially-oriented surface on which the side of the metering chamber is slidably mounted.

Claim 52 (Original): The dispenser of claim 51, wherein the axially-oriented surface of the structure is an outer surface.

Claim 53 (Currently amended): The dispenser of claim 7 ~~and any claim appended thereto~~, wherein the second section of the metering chamber boundary wall presents an end wall of the metering chamber.

Claim 54 (Currently amended): The dispenser of claim 7 ~~and any claim appended thereto~~, wherein the second section of the metering chamber boundary wall is presented by a generally U-shape structure.

Claim 55 (Currently amended): The dispenser of claim 51 ~~or 52 and claims 53 and 54~~ in which the base of the U-shape structure presents the end wall of the metering chamber and the limbs of the U-shape structure present the axially-oriented surface.

Claim 56 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the first section of the metering chamber boundary wall is formed by a female depression in an outer surface of the container unit.

Claim 57 (Currently amended): The dispenser of claim 56 ~~when appended to claim 7, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and~~ in which the second section of the

metering chamber boundary wall is formed as a male projection which is inserted into the female depression.

Claim 58 (Currently amended): The dispenser of claim 56 ~~[[or 57]]~~ in which the depression extends into the storage chamber.

Claim 59 (Original): The dispenser of claim 58 in which the storage chamber surrounds the depression.

Claim 60 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which at least a portion of the storage chamber surrounds the metering chamber.

Claim 61 (Original): The dispenser of claim 60 in which the at least a portion of the storage chamber is concentrically arranged with the metering chamber.

Claim 62 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the metering chamber has zero volume, or substantially zero volume, when in its contracted state.

Claim 63 (Currently amended): The dispenser of claim 62 ~~when appended to claim 7,~~ wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and wherein the first and second sections of the metering chamber boundary wall abut in the contracted state.

Claim 64 (Original): The dispenser of claim 63, wherein the first and second sections of the metering chamber boundary wall are of complementary shape.

Claim 65 (Currently amended): The dispenser of claim 63 ~~[[or 64]]~~ in which the first and second sections nest in the contracted state.

Claim 66 (Currently amended): The dispenser of claim 11 ~~or any claim appended thereto~~ in which the first section of the metering chamber boundary wall closes off the outlet port in the contracted state of the metering chamber.

Claim 67 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ which is hand-held.

Claim 68 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ having a manually-operable actuating mechanism for actuating movement of the metering chamber between its different states.

Claim 69 (Original): The dispenser of claim 68 in which the actuating mechanism has a manually-engageable actuator member which is operatively coupled to the container unit to move the container unit such that the metering chamber completes a cycle between its different states.

Claims 70 -- 84 (Canceled)

Claim 85 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the bleed arrangement is adapted such that the surplus volume of the fluid product is caused to bleed from the metering chamber by movement of the metering chamber from the expanded state towards the contracted state

Claims 86 -- 91 (Canceled)

Claim 92 (Currently amended): A dispenser unit having a dispenser according to claim 1 ~~any one of the preceding claims~~ in which the dispensing outlet is a dispensing outlet of the unit through which the metered volume of the fluid product is, in use, dispensed to the external environment.

Application No. PCT/US2015/000410
Attorney Docket No. PB60733-A USw

Claims 93 – 98 (Canceled)